Washington, D.C. 20505

20 DEC 19

Smith, Hinchman & Grylls Associates, Inc.
455 West Fort Street
Detroit, Michigan 48226

Attention: Mr. Wm. Everett Medling

Gentlemen:

Your letter dated 16 December 1983 which described effects of the revised chiller specification is unclear and confusing. The following paragraphs need to be revised for clarity.

1. Paragraph 4 states that an additional cell is necessary for the cooling tower because of larger chillers and increased capacity. It was our understanding that the chillers were downsized from 1,600 tons to 1,350 tons and that the total capacity was only increased from 8,000 tons to 8,100 tons.

2. Paragraph 5 again refers to larger chillers and additional capacity. Reference is made to the possibility of utilizing the redundant cell of the cooling tower, but no recommendation is stated.

3. Paragraph 6 recommends a 78° wet bulb design, which we assume means no additional cooling tower cells.

The foregoing paragraphs need to be revised and supplemented by calculations if necessary to ensure that your technical recommendations are clearly understood.

Sincerely,

STAT

New Building Project Office
Office of Logistics

cc: Mr. James R. Livingston

STAT OL/NBPO (20 Dec 83)

Distribution:
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SH&G

December 16, 1983
13155

Central Intelligence Agency
New Building Project Office
Room 4E50
CIA Headquarters Building
Washington, DC 20505

STAT Attention:

Re: Revised Chiller and Pump Bid Packages
Log 331

Gentlemen:

As you discussed today with Jim Livingston, we are hand delivering herewith a copy of the revised Chiller and Pump Bid Packages as discussed recently to permit the maximum possible bidders for the chillers. These revisions are as recommended by SH&G and agreed with you today. The Chiller and Pump Special Conditions have minor revisions to correct a cross reference on Patent Indemnity.

By copy of this letter, we are also shipping by Federal Express a set of photoready copies of the above-referenced material to Art Carlucci to expedite printing of the bid sets.

Upon further review of our cost, we wish to submit the following cost estimate for the enclosed specifications: 6 Chillers $1,600,000; 7 Condenser Water Pumps $191,000.

Our investigation into the capacity of the proposed cooling tower to determine its ability to handle the additional refrigeration capacity resulting from up-sizing the chiller has shown that an additional cell for the tower would be necessary.

By keeping the present 7-cell tower and installing the larger chillers, the additional capacity of the chillers could be utilized by the operation of the redundant cell.

Designing the tower to operate at 79° wet bulb in lieu of the 78° as designed would also necessitate adding an extra cell to the tower. The ASHRAE design wet bulb temperature for the area are as follows:

5%	76°
2-1/2%	77°
1%	78°

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Architects Engineers Planners
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Based on the above, we recommend that the tower design be kept at 78° W. B., as we see no way to justify a 79° design condition.

We hope this concludes the Bid Package development for the Chillers and Water Pumps. We have done all we can to research the chiller manufacturer's production capabilities and believe no further research will add insight to specifying the chillers required for this project.

Very truly yours,

Wm. Everett Medling, AIA
Project Manager

WEM:clm
Enclosure

cc: Mr. A. Carlucci
Mr. J. Livingston

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Comm[redacted]s Chiller and Pump Spec.

Basis of Award

198 Inadequate Basis of Award

Warranty

23 Add "after acceptance by the Government"

6 Packaging, Delivery and Storage

Impact Recording - Define device, define reading that constitutes a basis for rejection.

27 Change "in absence of" to "Except for"

Condensate Pumps

7 Will cond. pumps be insulated?

10-13 Who defines system?

41 Add "External supplied" before flush ring.

45 Delete 200 h. p. or add "max"

46 What is need for listing manufacturers without Model #'s

84 "Ball Type" Bearings

What are net positive suction head requirements?

Chiller

102 State temperature range for this operation

110 Which is desired "Purge" or "Pump out" or both.

121 Is PRV and disc desired.

123 Should minimum thickness tube be specified.

140 Change 32 F to 34 F.

151 Minimum capacity shall be 10% without surging or adjusting refrigerant charge. State min. cond. water temp. when so operating.

169 What are coast down requirements upon elect. failure. What ambient shall oil heater function.

174 Provide full set of spare sensors with wiring brought out to control panel.

175 -176 Delete "inherent"

257 Is this one common contact or one for each safety.

261 What is "Starter fault"?

270 Specify type of system to be employed for load shed.

274 For all starts not only power failure.

283 Specify isolation efficiency.

329 Fault protection to be continuous even during shunt transitions.

343 Size of 120 volt power supply?

367 Do you want accurate run AMP indication.

368 What circuit breaker.

373-382 Are these conditions consistent with specified models.

General

383 Can you "run-in" test hermetic motor on air?

1. What is max. condesing temperature with 85 F water?
2. What is minimum cond. water temp. that machines can use?
3. Amplify water box spec. and show general location of piping inlets and outlets. How is unit to be hinged or in this cover only?
4. Specify capacity and safety tests desired.
5. Specify extra oil and refigerant, lifting eyes and tube brushes.
6. Do we want open or hermetic motor?
7. Insulate unit so their are no condensing surfaces.